

IN THE CLAIMS

Please cancel original claim 1, and add new claims as follows:

--30. (New) A process for producing products in a powderized form comprising:  
directing particulate matter into a pellet mill, the particulate matter being in a first powderized form and having a first density;  
generating pellets of the particulate matter; and  
milling the pellets into a second powderized form, whereby the second powderized form of the particulate has a greater density than the first density.

31. (New) A process as claimed in claim 30 including ensuring that the formed pellet substantially excludes diluents or fillers.

32. (New) A process as claimed in claim 30 including introducing hydration into the pellet mill during the formation of pellets.

33. (New) A process as claimed in claim 30 including ensuring that the particulate matter includes materials for at least one of a pharmaceutical, nutritional or herbal end product.

34. (New) A process as claimed in claim 30 including applying hydration at a selected temperature and pressure and condensation characteristic to the pellet mill during pelletization thereby to increase the moisture content of the product.

35. (New) A process as claimed in claim 34 including ensuring that the product with increased moisture content is forced under pressure through a spinning perforated die of a predetermined dimension thereby to obtain a pellet of a selected size, and means for effecting the forcing through the die being effected selectively by counter rotating roller means.

36. (New) A process as claimed in claim 35 including cooling the pellets to a substantially ambient temperature prior to being milled by the milling means.

37. (New) A process as claimed in claim 30 including pre-milling for processing raw materials to obtain a particulate matter for feeding into the pellet mill.

38. (New) A process as claimed in claim 30 including ensuring that the size of particulate in the first form is greater than about 150 microns.

39. (New) A process as claimed in claim 30 including conditioning the particulate material in a conditioning chamber thereby to be penetrated by at least about 95% hydration under a pressure of about 40 to about 80 PSI thereby to hydrate the particulate matter and thereby add about 1% moisture to the particulate matter.

40. (New) A process as claimed in claim 39 including cooling an outlet from a pellet mill for permitting ambient air to pass through a bed containing pellets discharged from the pelletizing mill.

41. (New) A process as claimed in claim 30 including ensuring that the milled pellets output in a powderized form has an approximate size between about 100 to about 1300 microns, or of a size where essentially most of the powderized product is between a 14 mesh to a 150 mesh.

42. (New) A process as claimed in claim 30 including ensuring that the powderized form of the milled product has a particle size permitting about 100% passage through a 60 to 80 mesh.

43. (New) A process for producing pharmaceutical, nutritional or herbal end powdered product, wherein the density of the pharmaceutical, nutritional or herbal powdered end product in a powderized form is increased comprising:

directing particulate matter to constitute a pharmaceutical, nutritional or herbal powdered end product into a pellet mill, the particulate matter being in a first powderized form and having a first density;

generating pellets of the particulate matter for constituting the pharmaceutical, nutritional or herbal powdered end product; and

milling the pellets into a second powderized form, whereby the second powderized form of the particulate for constituting the pharmaceutical, nutritional or herbal powdered end product has a greater density than the first density.

44. (New) A process as claimed in claim 43 including ensuring that the formed pellet substantially excludes diluents or fillers.

45. (New) A process as claimed in claim 43 including applying hydration at a selected temperature and pressure and condensation characteristic to the pellet mill during pelletization thereby to increase the moisture content of the product.

46. (New) A process as claimed in claim 45 including ensuring that the product with increased moisture content is forced under pressure through a spinning perforated die of a predetermined dimension thereby to obtain a pellet of a selected size, and means for effecting the forcing through the die being effected selectively by counter rotating roller means.

47. (New) A process as claimed in claim 46 including cooling the pellets to a substantially ambient temperature prior to being milled.

48. (New) A process as claimed in claim 43 including pre-milling for processing raw materials to obtain a particulate matter for feeding into the pellet mill.

49. (New) A process as claimed in claim 43 including ensuring that the size of particulate in the first form is greater than about 150 microns.

50. (New) A process as claimed in claim 43 including conditioning the product to ensure that the particulate material is penetrated by at least about 95% hydrates under a pressure of about 40 to about 80 PSI thereby to hydrate the particulate matter and thereby add about 1% moisture to the particulate matter.

51. (New) A process as claimed in claim 50 including cooling at an outlet from the pelletizing mill for permitting ambient air to pass through a bed containing pellets discharged from the pellet mill.

52. (New) A process as claimed in claim 43 including ensuring that the milled pellets output form has an approximate size between about 100 to about 1300 microns, or of a size where essentially most of the product is between a 14 mesh to a 150 mesh.

53. (New) A process as claimed in claim 43 including ensuring that the powdered form of the milled product has a particle size permitting about 100% passage through a 60 to 80 mesh.

54. (New) A process for forming a pharmaceutical, nutritional or herbal powdered end product wherein the density of pharmaceutical, nutritional or herbal powdered end product in a powdered form is increased comprising:

directing particulate matter to constitute a pharmaceutical, nutritional or herbal powdered end product into a pelletizing mill, the particulate matter being in a first powdered form and having a first density;

generating pellets of the particulate matter for constituting the pharmaceutical nutritional herbal end product;

milling the pellets into a second powdered form for the pharmaceutical nutritional, or herbal powdered end product; and

preventing the additional fillers and diluents to the pharmaceutical, nutritional or herbal powdered end product matter thereby to provide a pharmaceutical, nutritional or herbal powdered end product having a density greater than at least from about 14% to about 40% relative to a standard pharmaceutical, nutritional or herbal powdered end product.

55. (New) A milled product produced by the process of claim 30 wherein the density of the particulate manner in the second powdered form is of a relatively greater density than in the form prior to being generated into a pellet.

56. (New) A milled product produced by the process of claim 31 wherein the density of the particulate manner in the second powdered form is of a relatively greater density than in the form prior to being generated into a pellet.

57. (New) A milled product produced by the process of claim 33 wherein the density of the particulate manner in the second powdered form is of a relatively greater density than in the form prior to being generated into a pellet.